

## **Amendments to the Claims:**

### **Listing of Claims:**

1. (Previously presented) A front-end array process for making a liquid crystal display  
5 panel, comprising:  
    depositing a molybdenum-containing metal layer on a glass substrate, wherein  
    said molybdenum-containing metal layer is a dual-metal layer;  
    forming a patterned photoresist on said molybdenum-containing metal layer,  
    wherein said patterned photoresist defines a gate and word line array pattern; and  
10      using said patterned photoresist as an etching mask, uniformly etching said  
    molybdenum-containing metal layer to form said gate and word line array pattern  
    having substantially oblique sidewalls, wherein said etching of said  
    molybdenum-containing metal layer uses gas mixture, wherein said etching of said  
    molybdenum-containing metal layer is detected by an end-point detection method.  
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2. (Original) The front-end array process for making a liquid crystal display panel  
according to claim 1 wherein after said etching of said molybdenum-containing metal  
layer, an over etching is carried out.
- 20 3. (Previously presented) The front-end array process for making a liquid crystal  
display panel according to claim 1 wherein said gas mixture is SF<sub>6</sub>/O<sub>2</sub> having a ratio  
of about 700sccm/300sccm.
4. (Original) The front-end array process for making a liquid crystal display panel  
25 according to claim 1 wherein said etching of said molybdenum-containing metal layer  
is executed under a process pressure higher than 25 mTorr.
5. (Original) The front-end array process for making a liquid crystal display panel  
according to claim 1 wherein said etching of said molybdenum-containing metal layer  
30 is further controlled by a source power, a bias power, process pressure, oxygen  
flowrate and flowrate of fluorine containing gas.

6. (Canceled)

7. (Canceled)

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8. (Original) The front-end array process for making a liquid crystal display panel according to claim 1 wherein said etching of said molybdenum-containing metal layer is detected by an end-point detection method at an wavelength of about 704nm.

10 9. (Original) The front-end array process for making a liquid crystal display panel according to claim 1 wherein said gas mixture is oxygen/fluorine containing.

10. (Original) The front-end array process for making a liquid crystal display panel according to claim 1 wherein said gas mixture is oxygen/chlorine containing.

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11. (Original) The front-end array process for making a liquid crystal display panel according to claim 1 wherein said gas mixture is oxygen/chlorine/fluorine containing.

12. (Original) The front-end array process for making a liquid crystal display panel according to claim 1 wherein said gas mixture is SiF<sub>6</sub>/O<sub>2</sub> containing.

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13. (Previously presented) A front-end array process for making a liquid crystal display panel, comprising:

depositing a molybdenum-containing metal layer on a glass substrate;

25 forming a patterned photoresist and defining a gate and word line array pattern on said molybdenum-containing metal layer; and

etching said molybdenum-containing metal layer by using fluorine/oxygen containing gas mixture containing SF<sub>6</sub>/O<sub>2</sub> with a ratio of about 700sccm/300sccm, and using said patterned photoresist as an etching mask to form said gate and word line array pattern.

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14. (Previously presented) The front-end array process for making a liquid crystal

display panel according to claim 13 wherein said gate and word line array pattern have substantially oblique sidewalls.

15. (Original) The front-end array process for making a liquid crystal display panel  
5 according to claim 13 wherein after said etching of said molybdenum-containing metal layer, an over etching is carried out.

16. (Canceled)

10 17. (Original) The front-end array process for making a liquid crystal display panel according to claim 13 wherein said etching of said molybdenum-containing metal layer is executed under a process pressure higher than 25 mTorr.

15 18. (Original) The front-end array process for making a liquid crystal display panel according to claim 13 wherein said etching of said molybdenum-containing metal layer is detected by an end-point detection method at an wavelength of about 704nm.

19. (Original) The front-end array process for making a liquid crystal display panel according to claim 13 wherein said molybdenum-containing metal layer is a  
20 dual-metal layer.

20. (Previously presented) The front-end array process for making a liquid crystal display panel according to claim 19 wherein said dual-metal layer is Mo/AlNd, MoW/AlNd, or MoW/Al, wherein Mo and MoW are top layers, while AlNd and Al  
25 are bottom layers.

21. (New) A front-end array process for making a liquid crystal display panel, comprising:

depositing a molybdenum-containing metal layer on a glass substrate, wherein  
30 said molybdenum-containing metal layer is a dual-metal layer and said dual-metal layer is Mo/AlNd, MoW/AlNd, or MoW/Al, wherein Mo and MoW are top layers, while AlNd and Al are bottom layers;

forming a patterned photoresist on said molybdenum-containing metal layer,  
wherein said patterned photoresist defines a gate and word line array pattern; and

using said patterned photoresist as an etching mask, uniformly etching said  
molybdenum-containing metal layer to form said gate and word line array pattern  
5 having substantially oblique sidewalls, wherein said etching of said  
molybdenum-containing metal layer uses gas mixture, wherein said etching of said  
molybdenum-containing metal layer is detected by an end-point detection method.

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